A PICTURE'S WORTH:

Whether used in vided display mode or in its high-performance graphics mode, Human Designed Systems' concept GVT has more to offer at its price for terminal operators, interactive users, and applications developers than any other terminal available today.

HDS human designed systems, inc.

CONCEPT GVT™ Graphic Display Terminal

A practical resolution for your business and analysis graphics requirements

The Human Designed Systems' concept GVT Graphics Display Terminal. Combining high-performance graphics with the industry's "smartest" interactive display terminal. Providing features which extend beyond the capabilities of the Tektronix® 4010...and at a price that makes it the industry's best graphics terminal buy. And, whether used in video display mode or in its high-performance graphics mode, offering more at its price for terminal operators, interactive users, and applications developers than any other terminal available today.

In graphics mode...

The *concept* GVT provides software compatibility with the Tektronix 4010 with its standard vector (780 x 1024), alpha (35 lines by 73 columns) and GIN (graphical input) modes. It provides many capabilities beyond those of the 4010 — including vector and character erasure or write-over, block fill, memory dump and load, dotted and dashed lines, hardcopy production via attachment to a low-cost printer, and graphics memory dim. Graphics memory can be accessed by either of the terminal's two standard bidirectional communications interfaces.

These capabilities make the *concept* GVT ideally suited for a wide range of graphics applications:

- Quick and simple data analysis and presentation of low-resolution business graphics (e.g. bar and pie charts, and curve fitting)
- Low-cost and fast method to preview and print high-resolution complex graphic presentations
- Practical, low-cost solution for low-resolution CAD/CAM applications

In interactive display mode...

The *concept* GVT offers all of the capabilities of the industry's smartest terminal — the *concept* AVT™. Standard capabilities include ANSI X3.64-1979 standard conformance, DEC® software compatibility, four pages of memory, 80/132 columns, windows, easy-to-use setup mode, 43 fully programmable functions, multiple character sets, non-volatile memory for permanent terminal reconfiguration, text editing and data entry applications functionality, two bidirectional communications interfaces for simultaneous connection to multiple computers, block mode and much more — to provide the perfect tool for terminal operators, interactive users and applications developers. *Please see the concept AVT product specification (DN 2301-8211-2) for a complete description of these capabilities.*

An APL version (*concept* GVT-APL) is also offered, which provides both APL and ASCII character sets and software compatibility with the Tektronix 4013.

■ Concept GVT Four-Page ASCII
■ Concept GVT-APL Four-Page APL-ASCII

GRAPHICS MODE FUNCTIONAL CAPABILITIES

Vector Mode

Vector draw or block fill
Resolution: 250 x 512 scaled from 780 x 1024.
Data levels: black, white, opposite (write-over)
Line types: normal, dotted, dot-dashed, short-dashed, long dashed.

Alpha Mode

Character set: 96-character upper/lower case ASCII
Screen format: 35 lines by 73 columns
Character formation: 6 x 6 within a 7 x 7 dot matrix
Auto wraparound to second column on page full
Cursor controls: up, down, left, right

GIN Mode (Graphical Input)

Use of cursor controls (up, down, left, right) or optional joystick

Additional Capabilities

Memory dump/load
Print graphics memory
Transmit status
Dim graphics memory
Ability to power up in graphics mode (required for true 4010 software compatibility)

INTERACTIVE DISPLAY MODE FUNCTIONAL CAPABILITIES

Same as concept AVT

See product specification DN 2301-8211-2

PHYSICAL CHARACTERISTICS

General

Dimensions: Monitor — 15¼" W x 14½" H x 16½" D (38.7 cm x 36.8 cm x 41.9 cm).
Keyboard — 17½" W x 3" H x 8¾" D (44.4 cm x 7.6 cm x 22.2 cm).
Power: 115 VAC; 60 Hz
optional: 220/240 VAC, 50 Hz
Weight: 38 lbs. (17.27 kg)

Memory

Size: Graphics — one page.
Interactive display — four pages (96 80-column lines) standard; (eight pages optional: 192 80-column lines)
Graphics memory and 24 lines of interactive display memory are displayed simultaneously at all times
Either memory may be set to be non-visible.

Display

12-inch diagonal high-quality direct-etch amber (ALA) phosphor. No-cost options include direct-etch white (P4) or green (P31)

Keyboard

Detached via retractile coiled cord
102 keys with numeric, cursor control and function pads standard. Forty-three programmable functions.

Communications

Code: ASCII
Type: Two bidirectional RS232C interfaces (20 mA current loop optional), 50-9600 baud (15 rates)
Parity: even, odd, none, mark, space
Duplex: half/full
Stop bits: one or two
Controls: XON/XOFF and EIA CTS/RTS handshake

Graphics Options

Joystick: alternate GIN mode input

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